

IN THE CLAIMS

Please cancel claims 6-8, 10-11, 16-17, and 19, without prejudice.

Please amend the claims as follows.

1. (Currently amended) A method for producing isolated galactose oxidase comprising transforming a yeast with a vector comprising a nucleic acid sequence encoding a fusion protein of a signal peptide and galactose oxidase, and an inducible promoter that regulates transcription of the sequence encoding said fusion protein, culturing said transformed yeast at a first temperature, inducing said promoter at a second temperature which is lower than the first temperature to cause yeast to produce said fusion protein, removing within the yeast said signal peptide from the galactose oxidase, and secreting the galactose oxidase from the yeast, wherein the galactose oxidase is in an inactive form when secreted from the yeast.
2. (Original) The method of claim 1 which further comprises activating the secreted galactose oxidase by treatment with an oxidant.
3. (Original) The method of claim 1 wherein the yeast is *Pichia spp.*
4. (Previously amended) The method of claim 1 wherein the signal peptide is an *Aspergillus niger* glucoamylase signal peptide.
5. (Original) The method of claim 1 wherein the inducible promoter is a methanol-inducible promoter.

6 to 17. (Canceled)

18. (Currently amended) The method of claim 17 wherein the temperature during the induction is 25°C.

19. (Canceled)

20. (Currently amended) A method for producing isolated galactose oxidase comprising transforming a yeast with a vector comprising a nucleic acid sequence encoding a fusion protein of a signal peptide and galactose oxidase, and an inducible promoter that regulates transcription of the sequence encoding said fusion protein, culturing said transformed yeast, inducing said promoter to cause yeast to produce said fusion protein, removing within the yeast said signal peptide from the galactose oxidase, secreting the galactose oxidase from the yeast, wherein the galactose oxidase is in an inactive form when secreted from the yeast, and activating the secreted galactose oxidase by treatment with an oxidant The method of claim 19 wherein the treatment with the oxidant is for 12 hours.

21. (New) The method of claim 20 wherein the culturing is at a first temperature and the inducing is at a second temperature which is lower than the first temperature.

22. (New) The method of claim 21 wherein the second temperature is 25°C.